

**Amendments to the Drawings:**

The drawing sheet or sheets attached in connection with the above-identified application containing Figures 5 and 6 are being presented as a new formal drawing sheet or sheets to be substituted for the previously submitted drawing sheet or sheets. The drawing drawing Figures 5 and 6 have been amended. Appended to this amendment is an annotated copy of the previous drawing sheet which has been marked to show changes presented in the replacement sheet of the drawing.

The specific change which has been made to Figure 5 is the second occurrence of “is” (after “Doppler effect”) as set forth at S505 of the original drawing has been deleted.

The specific change which has been made to Figure 6 is the text at S606 has been amended as follows: IS [[SLOP]] SLOT DEVIATION [[IS]] EQUAL TO OR LESS THAN PREDETERMINED VALUE?.

## REMARKS

Applicant respectfully requests that the foregoing amendments be made prior to examination of the present application.

By way of the present amendment, claims 3 and 8 are cancelled, and claims 1, 4-7, 9 and 10 are amended. Specifically, claims 1 and 7 are amended to incorporate the respective features of cancelled claims 3 and 7 and claims 4-6, 9 and 10 are amended to conform to the changes to the independent claims and cancellation of claims 3 and 8. Consequently, claims 1, 2, 4-6 and 8-10 are presented for reconsideration and reexamination. A detailed listing of all claims that are, or were, in the application, irrespective of whether the claims remain under examination in the application, is presented, with an appropriate defined status identifier.

### Objection to Drawings

The Office Action objects to the drawings based on a typographical error in Fig. 6. In reply, Applicant has reviewed the drawings and corrected this and other minor informalities appearing at step S505 of Fig. 5 and S606 of Fig. 6. Withdrawal of the objection to the drawings is requested.

### Rejections Under §§ 102 and 103

The Office Action rejects claims 1, 2, and 7 under 35 U.S.C. § 102(a) as anticipated by WO 00/04649 to Naghian ("Naghian"). Claims 3-5, 8 and 9 are rejected under 35 U.S.C. § 103(a) as unpatentable over Naghian in view of W) 00/33470 to Tran et al. ("Tran"). These rejections are respectfully traversed as follows.

Naghian relates to a method for controlling transmission power in a radio system and in a WCDMA system, particularly where transmission power is controlled by means of power control steps. In the system of Naghian, the step size for transmission power change is adjusted using a fixed step size or is adjusted dynamically using a variable step size. An acceptable threshold value of the transmission power may vary specifically for each connection.

Fig. 3B of Naghian is a flow chart that illustrates signal processing. If the mobile station (MS) receives a power control command (3-18), it is put into a register (3-22), which saves zero to eight of such commands. Afterwards a decision is made (3-24) whether the bit stream of the last received power control command is even or not. In case it is even, the steps that follow are skipped and transmission power is unadjusted. Otherwise, further processing is done.

As acknowledged by the Office Action, Naghian does not take decoding errors of the received transmission power control bit due to Doppler effect into consideration. However, mobile stations have to deal a lot with frequency deviation due to Doppler effect. Having a weak connection and a false transmission control bit can cause the connection to abort.

In view of the deficiencies of Naghian, the Office Action relies on Tran. Tran relates to a forward link closed loop power control based on mobile station mobility. The power control circuitry of the mobile station provides, in cooperation with power control circuitry of the base station, closed loop power control to the communication channel. The power control circuitry includes circuitry for selectively deriving power control commands based on one of first power control commands or second power control commands in response to a determined mobility of the mobile station. The determined mobility can be indicative of a Doppler shift of a carrier transmitted from the base station, or a velocity derived from the Doppler shift. (See Abstract.)

Fig. 4 of Tran is a schematic block diagram of power control in a mobile station. The DSP 66 applies an estimation algorithm to determine a Doppler condition. Depending on the result, the power control circuitry 18a may be utilized to by-pass or modify the derivation of power control commands in order to improve link performance. However, Tran fails to disclose a determination means to decide whether the transmission power is repeatedly increased/decreased, or not. Further, the control of transmission of power in Tran must be performed for each slot in accordance with a transmission power control bit updated for each slot. This results in unnecessary waste of power.

The present invention provides a system and method in which power consumption is suppressed and the influence of decoding errors in the transmission power control bit on a system is reduced. As reflected in the amended claims, the system and method according to the invention utilize a combination of a memory saving a row of transmission power bits in order to determine whether the transmission power is repeatedly increased/decreased, taking into consideration frequency deviation due to Doppler effect. As set forth above, this combination of features is not found in Naghian or Tran.

As noted above, Applicant has amended independent claims 1 and 7 to reflect the above-noted features that are absent from the combination relied upon in the Office Action. In view of these amendments, it is submitted that the claims are patentable over the prior art of record.


Conclusion

Applicant believes that the present application is now in condition for allowance. Favorable consideration of the application as amended is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

Respectfully submitted,

Date 1/12/05

By 

FOLEY & LARDNER LLP  
Customer Number: 22428  
Telephone: (202) 945-6014  
Facsimile: (202) 672-5399

George C. Beck  
Attorney for Applicant  
Registration No. 38,072

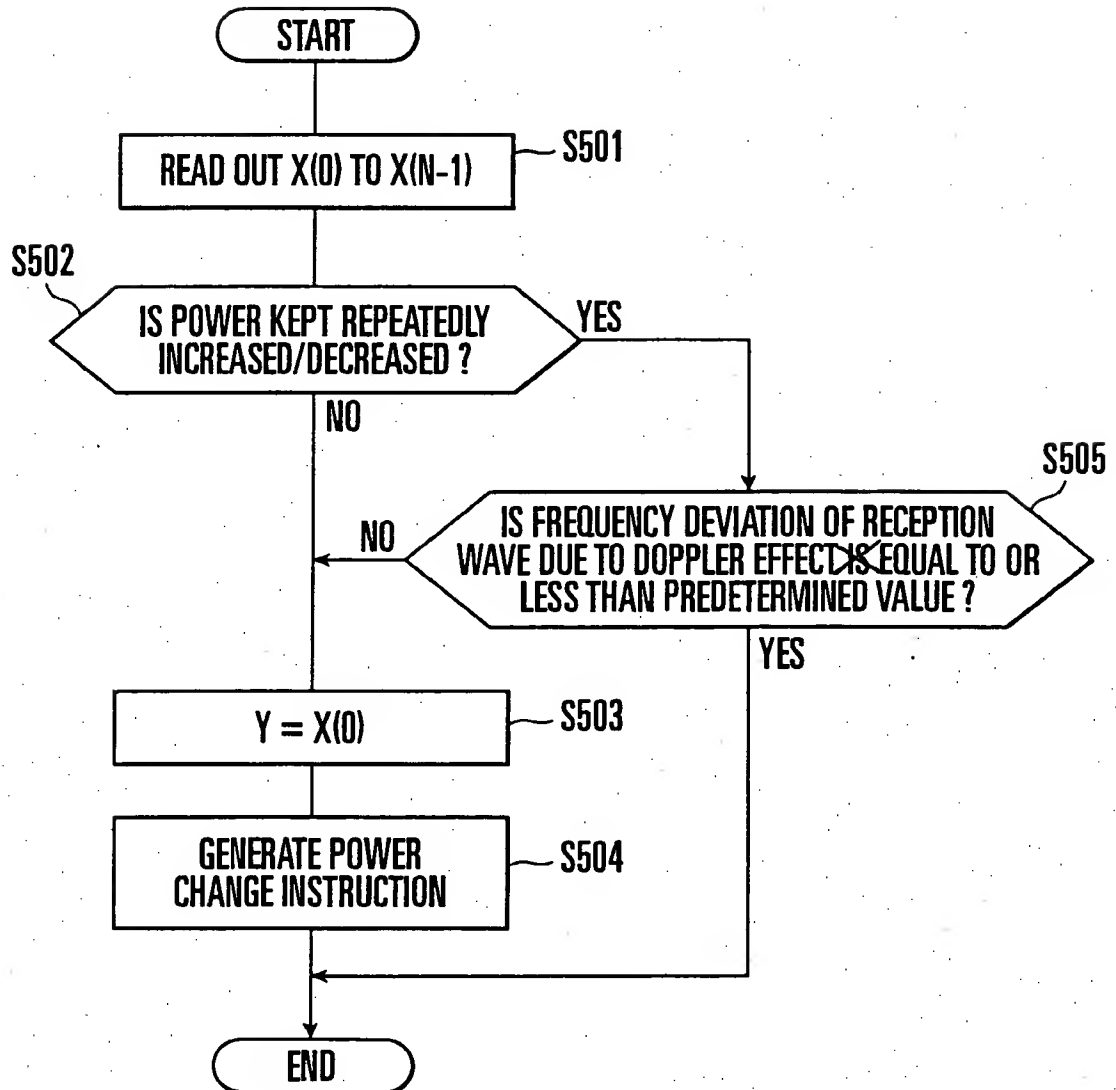


FIG. 5

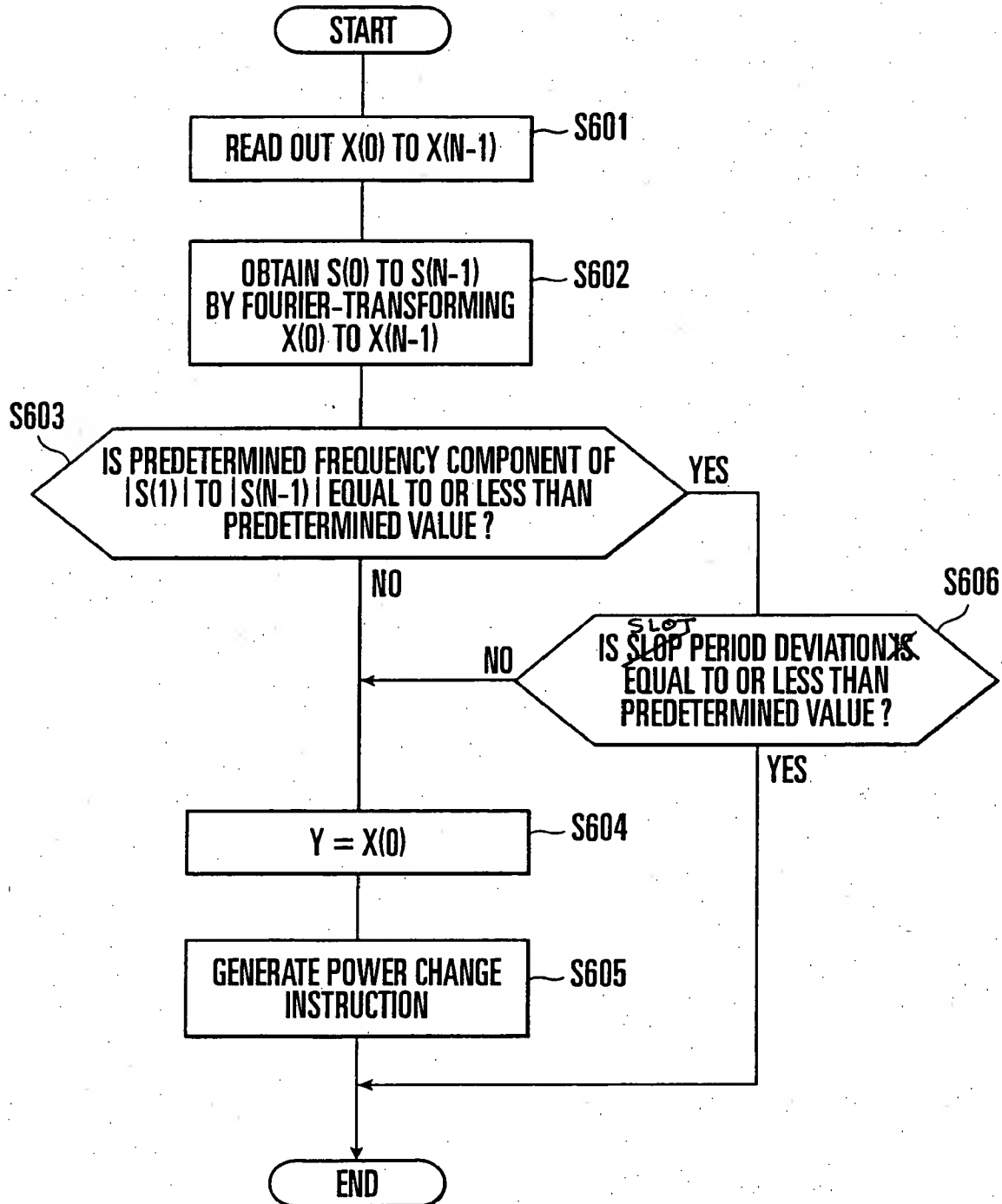


FIG. 6